

AQUEOUS INK

Patent Number: JP10046092
Publication date: 1998-02-17
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Requested Patent: JP10046092
Application Number: JP19960208666 19960807
Priority Number(s):
IPC Classification: C09D11/10 ; C09D11/00
EC Classification:
Equivalents: JP3065946B2

Abstract

PROBLEM TO BE SOLVED: To obtain an aqueous ink comprising the suspension of a dyestuff or pigment-absorbed polyester produced from a specific diol and a dimer acid, etc., and giving printed products high in the ink concentrations of printed letters, good in the fixity of the ink and good in water resistance.

SOLUTION: This aqueous ink comprises the dyestuff or pigment-absorbed suspension of a polyester, gives printed products high in the ink concentrations of printed letters, and has improved ink fixity and water resistance. The dyestuff or pigment-absorbed suspension of the polyester is obtained by copolycondensing a diol component of the formula [R is a lower alkyl; A is an alkylene; (x), (y) are each an integer of ≥ 1 ; the average value of (x)+(y) is 2-7] [e.g. polypropylene (2,2)-2,2-bis(4-hydroxyphenyl) propane] with one or more kinds of acid components selected from a dimer acid, a dibasic or more polybasic carboxylic acid (e.g. fumaric acid) excluding the dimer acid, their acid anhydrides, their lower alkyl esters, etc., adding the obtained polyester having an acid value of 3-100KOHmg/g together with the dyestuff of the pigment to a solvent, adding a neutralizing agent to the mixture to ionize the carboxyl groups, adding water to the neutralized mixture, and subsequently distilling off the solvent to invert the mixture into an aqueous phase.

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